

IN THE SPECIFICATION

Insert the following paragraph [0001] after the Title of the Invention on page 1 of the application:

AI --[0001] This application is a divisional application of serial number 09/394,189, "Directional Antenna for Handheld Wireless Communication Device," filed September 13, 1999, to which priority for the present application is claimed.—

IN THE CLAIMS

All pending claims are herewith presented for the convenience of the Examiner.

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Claims 1 through 16 are hereby cancelled without prejudice or disclaimer.

17. A system for cellular communications comprising:
a plurality of service cells, each service cell having an associated base station;
one or more handheld wireless communications devices having at least one directional antenna; and

wherein the plurality of service cells are coordinated to provide communications services to the one or more handheld wireless communications devices when each device changes the orientation of its associated directional antenna.

18. The system for cellular communications of claim 17 wherein each handheld wireless communications device has a patch antenna that is used to transmit signals.

19. The system for cellular communications of claim 17 wherein each handheld wireless communications device has a patch antenna that is used to receive signals.

20. The system for cellular communications of claim 17 wherein each handheld wireless communications device further comprises:

a transmit patch antenna that is used to transmit signals; and

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a receive patch antenna that is used to receive signals.

21. The system for cellular communications of claim 17 wherein each handheld wireless communications device further comprises:

a patch antenna that is used to transmit signals; and

a monopole antenna that is used to receive signals.

22. (NEW) The system for cellular communications of claim 17 further comprising a call routing and call mapping system coupled to each service cell, the call routing and call mapping system allocating allocating channel bandwidth between each service cell to accommodate a change in orientation of the user.

23. (NEW) A method for providing cellular communications comprising:
determining the location of a user having a directional wireless device;
allocating call resources at one or more adjacent cells; and
setting up a call channel with the user.

24. (NEW) The method of claim 23 wherein setting up the call channel with the user is performed in parallel with the other steps.

25. (NEW) The method of claim 23 further comprising:
determining whether a change in orientation of the user is occurring; and
handing over the user to an optimal cell.

26. (NEW) The method of claim 25 wherein determining whether the change in orientation of the user is occurring comprises monitoring the signal strength of the directional wireless device at two or more base stations.

27. (NEW) The method of claim 25 wherein handing over the user to an optimal cell comprises handing over the user to a cell which the user is turning the directional wireless device towards.

28. (NEW) The method of claim 25 wherein determining whether the change in orientation of the user is occurring comprises monitoring the signal strength of the directional wireless device at the directional wireless device.

29. (NEW) The method of claim 28 wherein handing over the user to the optimal cell comprises:

transmitting a first signal from the directional wireless device to a first base station; and receiving a second signal at the directional wireless device from a second base station.

30. (NEW) The method of claim 28 wherein handing over the user to the optimal cell comprises:

transmitting new call channel data to the wireless device from a first base station; and changing the transmission characteristics at the directional wireless device to allow a transmitted signal from the directional wireless device to be received at a second base station.

31. (NEW) A method for providing cellular communications comprising:
determining an orientation of a user having a directional wireless device;
establishing a call channel with the directional wireless device from a first base station;
determining a change in orientation of the directional wireless device; and
setting up a new call channel with the user and a second base station.

32. (NEW) The method of claim 31 wherein determining the orientation of the user having the directional wireless device comprises determining which of two or more base stations should serve the directional wireless device.

33. (NEW) The method of claim 31 wherein determining the orientation of the user having the directional wireless device comprises determining which of two or more base stations is receiving the greatest magnitude of field strength from the directional wireless device.

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